

SPAWAR INSTRUCTION 4442.1

From: Commander, Space and Naval Warfare Systems Command

Subj: SECONDARY ITEM ALLOWANCE REQUIREMENTS FOR OPERATIONAL
EVALUATION

Ref: (a) OPNAVINST 5000.49A of 30 Jan 87
(b) NAVSUPINST 4442.14 of 23 May 84

1. Purpose. To establish Space and Naval Warfare Systems Command (SPAWAR) secondary item (i.e., spare and repair parts) allowance policy for operational evaluation (OPEVAL), particularly for the assessment of operational availability (A_0).

2. Scope. Applies to all SPAWAR systems and equipment scheduled for OPEVAL by the Commander, Operational Test and Evaluation Force (COMOPTEVFOR).

3. Discussion

a. OPEVAL is the final operational test and evaluation (OT-II) conducted on a system/equipment prior to the Milestone I - II production decision. OPEVAL is conducted to verify system/equipment operational effectiveness and suitability and to ensure that required operational thresholds (e.g., A_0) are met.

b. A_0 represents the expected percentage of time that a system/equipment will be ready to perform satisfactorily in an operating environment. System/equipment A_0 is a function of the number of failures experienced over a period of time and the average time (downtime) required to return the system/equipment to an operational condition. Since downtime is affected by the type and number (i.e., range and depth) of spares available on-site, an excessive number of spares may bias the evaluation of A_0 . Therefore, to obtain a realistic evaluation of A_0 during OPEVAL, secondary item allowances must be representative of authorized allowances during system/equipment deployment.

c. For weapon systems in Acquisition Categories (ACATs) I through III, reference (a) requires that a Readiness Based Sparing (RBS) model be used to determine authorized allowances. RBS models tie stockage decisions directly to readiness and show the effects of spares availability on system A_0 . At the present time, the Availability Centered Inventory model (ACIM) is the only RBS model approved for use within the Navy. Procedures for using ACIM are described in reference (b).

4. Policy. SPAWAR programs shall use an approved Navy sparing model to compute secondary item allowance requirements for both OPEVAL and system/equipment deployment. For OPEVAL spare and repair parts, two lots of secondary item allowances will be computed.

a. The first lot shall represent a Preliminary Allowance List (PAL) for the system/equipment calculated from the selected authorized Navy sparing model.

b. The second lot shall consist of insurance spares. This lot will include any part that can be removed and replaced by evaluation platform personnel. These spares are intended to sustain the OPEVAL when spares necessary to effect repairs are not available from lot one. When an insurance item is used as a replacement for a failed item, either the computed logistics delay time for the equipment or the default value of 203 hours shall be used when calculating A_0 .

c. The Program Manager shall review usage data to assess the adequacy of secondary item allowances and the consequent impact on A_0 . If the assessment of secondary item allowances indicates an allowance change is required, then a requested allowance change will be submitted to NAVSEALOGCEN.

5. Action

a. SPAWAR 003, Acquisition and Logistics Planning Directorate shall:

(1) Monitor the status of tasking and funding for NAVSEALOGCEN OPEVAL secondary item allowance computations. Coordinate with the PMWs and NAVSEALOGCEN to resolve any resultant difficulties.

(2) Evaluate the adequacy of secondary item allowance policy for OPEVAL, and revise/update policy and procedures as necessary.

b. Program Managers (SPAWAR PMWs) shall:

(1) Plan, budget, and execute SPAWAR OPEVAL secondary item allowance policy for all full-scale development Acquisition Category (ACAT) I, II, III, and IVT programs.

(2) Assess the adequacy of system/equipment secondary item allowances, following the evaluation of A_0 during OPEVAL. Forward requested allowance changes to NAVSEALOGCEN.

c. Provisioning Support Engineering Department, NAVSEALOGCEN shall:

(1) Assist acquisition managers as required in calculating system/equipment secondary item allowances for OPEVAL and in evaluating A_0 from OPEVAL data.

(2) Process allowance change requests generated as the result of OPEVAL to ensure that revised allowances are incorporated into allowance documentation prior to system/equipment deployment.

/s/

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